

**Notice of Allowability**

Application No.

10/784,194

Applicant(s)

ITO ET AL.

Examiner

Art Unit

Anh T.N. Vo

2861

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 12/08/2005.
2. ☒ The allowed claim(s) is/are 1-42.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 09/933,156.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

***REASONS FOR ALLOWANCE***

The following is an Examiner's Statement of Reasons for Allowance:

Claims 1-18 are allowed because none of the prior art references of record teaches an ink jet head, comprising a frame including an aperture that is disposed such that a second surface of each of at least one head unit is exposed therethrough and an adhesive applied at the aperture to bond the second surface to a support of the frame, the adhesive being quickly hardened in the combination as claimed.

Claims 19-26 are allowed because none of the prior art references of record teaches a method of bonding a head unit to a frame, comprising steps of disposing the frame onto the jig in a manner that a third surface of a bottom plate of the frame faces a second surface of at least one head unit and the second surface exposes through a plurality of recesses of the bottom plate; and applying an adhesive between the second surface of the at least one head unit and the third surface of the bottom plate through the plurality of recesses without applying pressure in the combination as claimed.

Claims 27-40 are allowed because none of the prior art references of record teaches a method of manufacturing an ink-jet printer head comprising step of applying an adhesive between a second surface of at least one head unit and a third surface of a bottom plate of a frame through a plurality of apertures of the bottom plate, each of the plurality of apertures facing a peripheral portion of the at least one head unit such that the peripheral portion of the at least one head unit is exposed through the plurality of apertures in the combination as claimed.

Claims 41-42 are allowed because none of the prior art references of record teaches a method for bonding a head unit to a frame comprising steps of applying an adhesive between a third surface of the frame and a second surface of each of a plurality of head units such that the plurality of head units are fixed side by side with a nozzle plate of each of the plurality of head units positioned in the common plane, wherein the frame includes a bottom plate having a third


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surface facing to the second surface of each of the plurality of head units and a fourth surface opposite with the third surface, the bottom plate having a plurality of apertures that penetrate the bottom plate such that the second surface of each of the plurality of head units is exposed through the plurality of apertures in the combination as claimed.

***CONCLUSION***

Any comments considered necessarily by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Anh Vo whose telephone number is (571) 272-2262. The examiner can normally be reached on Tuesday to Friday from 9:30 A.M. to 7:30 P.M.. The fax number of this Group 2800 is (571) 273-8300.



ANH T.N. VO  
PRIMARY EXAMINER  
February 10, 2005